FTC

"Tar"[4] and Nicotine[5] of One-hundred thirty (130) Varieties of Domestic Cigarettes

Name	Type[1]		Average weight[2]	Butt length[3]	TPM dry[4] *	Nicotine[5] *
Alpine	F, M, SP	85mm	1.0730	28.0 - 29.9 mm	17.8 ± 0.4	1.17 ± 0.03
American Brand	F, HP	80mm	0.9727	26.3 - 27.5 mm	19.3 ± 0.3	1.31 ± 0.03
American Brand	F, SP	85mm	1.0353	25.9 - 28.0 mm	20.6 ± 0.4	1.40 ± 0.02
Belair	F, M, SP	85mm	0.9762	26.7 - 29.2 mm	16.7 ± 0.3	1.29 ± 0.04
Belair	F, M, SP	100mm	1.1289	32.5 - 34.5 mm	17.7 ± 0.2	1.38 ± 0.03
Benson & Hedges	F, HWP	70mm	0.8844	23.0 - 27.5 mm	16.7 ± 0.8	1.21 ± 0.05
Benson & Hedges	F, HWP	85mm	1.0752	26.3 - 33.6 mm	17.8 ± 0.4	1.29 ± 0.03
Benson & Hedges	F, SP	100mm	1.2074	34.1 - 35.8 mm	19.1 ± 0.3	1.37 ± 0.02
Benson & Hedges	F, M, SP	100mm	1.2027	34.5 - 35.5 mm	20.0 ± 0.3	1.41 ± 0.03
Bull Durham	F, SP	85mm	1.1877	26.0 - 28.5 mm	29.8 ± 0.6	1.97 ± 0.05
Camel	NF, SP	70mm	0.9322	23 mm	24.6 ± 0.3	1.49 ± 0.03
Camel	F, SP	85mm	1.0257	26.3 - 28.6 mm	19.1 ± 0.4	1.31 ± 0.03
Camel Taile	F, SP	100mm	1.2131	32.8 - 34.9 mm	20.1 ± 0.3	1.40 ± 0.02
Carlton[6]	F, SP	70mm	0.8438	32.5 - 34.0 mm	0.9 ± 0.1	0.11 ± 0.01
Carlton	F, SP	85mm	1.0172	31.8 - 33.9 mm	3.1 ± 0.2	0.29 ± 0.02
Chesterfield	NF, SP	70mm	0.9396	23 mm	25.2 ± 0.3	1.52 ± 0.03
Chesterfield	NF, SP	85mm	1.1274	23 mm	29.0 ± 0.4	1.83 ± 0.03
Chesterfield	F, SP	85mm	1.0128	26.3 - 28.0 mm	18.5 ± 0.3	1.31 ± 0.03
Chesterfield	F, M, SP	85mm	1.0245	27.5 - 28.0 mm	18.3 ± 0.2	1.16 ± 0.02
Chesterfield	F, SP	101mm	1.2116	28.0 - 31.0 mm	19.0 ± 0.6	1.42 ± 0.03
Domino	NF, SP	85mm	1.2465	23 mm	27.0 ± 0.5	1.44 ± 0.06
Domino	F, SP	85mm	1.0727	24.7 - 27.4 mm	20.8 ± 0.4	1.26 ± 0.06
Doral	F, SP	85mm	1.1417	32.3 - 33.9 mm	14.0 ± 0.4	1.02 ± 0.03
Doral	F, M, SP	85mm	1.1372	32.3 - 33.4 mm	14.1 ± 0.3	1.06 ± 0.02
DuMaurier	F, HWP	85mm	1.0235	26.8 - 29.0 mm	17.2 ± 0.5	1.22 ± 0.04
Edgeworth Export	F, HP	85mm	1.0508	26.6 - 27.7 mm	18.3 ± 0.3	1.32 ± 0.04
Edgeworth Export	F, SP	100mm	1.2374	31.2 - 32.2 mm	18.8 ± 0.5	1.46 ± 0.04
English Ovals	NF, HWP	70mm	0.9940	23 mm	24.3 ± 0.4	1.80 ± 0.05
English Ovals	NF, HWP	85mm	1.2280	23 mm	30.0 ± 0.4	2.39 ± 0.06
Eve	F, SP	100mm	1.1590	31.1 - 34.3 mm	17.4 ± 0.4	1.28 ± 0.02
Eve	F, M, SP	100mm	1.1330	30.4 - 34.8 mm	17.6 ± 0.3	1.20 ± 0.03
Fatima	NF, SP	85mm	1.1563	23 mm	30.6 ± 0.6	1.87 ± 0.03
Frappe	F, M, SP	85mm	1.0779	26.3 - 28.3 mm	9.9 ± 0.3	0.37 ± 0.01
Galaxy	F, SP	85mm	1.1569	28.0 - 29.5 mm	20.1 ± 0.4	1.44 ± 0.04
Half & Half	F, SP	85mm	1.1622	26.4 - 27.6 mm	23.9 ± 0.5	1.73 ± 0.04
Herbert Tareyton	NF, SP	85mm	1.1245	23 mm	29.4 ± 0.5	1.86 ± 0.04
Home Run	NF, SP	70mm	0.8584	23 mm	19.2 ± 0.4	1.44 ± 0.04
Kent	F, SP	70mm	0.8988	26.3 - 27.9 mm	9.4 ± 0.4	0.56 ± 0.01
Kent	F, HP	80mm	0.9799	26.8 - 28.4 mm	16.4 ± 0.2	0.99 ± 0.02
Kent	F, SP	85mm	1.0444	26.5 - 28.6 mm	17.0 ± 0.4	1.05 ± 0.02
Kent	F, M, SP	85mm	1.0208	26.7 - 28.6 mm	18.4 ± 0.4	1.13 ± 0.02
Kent	F, SP	100mm	1.1961	32.0 - 34.0 mm	19.6 ± 0.4	1.28 ± 0.02
Kent	F, M, SP	100mm	1.1915	32.3 - 34.0 mm	18.2 ± 0.4	1.21 ± 0.03
King Sano	F, SP	85mm	1.1523	27.5 - 29.0 mm	6.5 ± 0.4	0.28 ± 0.01
King Sano	F, M, SP	85mm	1.1527	27.5 - 29.7 mm	6.4 ± 0.3	0.28 ± 0.01
Kool	NF, M, SP	70mm	0.8739	23 mm	20.9 ± 0.4	1.45 ± 0.03
Kool	F, M, SP	85mm	0.9749	26.9 - 29.0 mm	17.9 ± 0.4	1.43 ± 0.02
Kool	F, M, SP	100mm	1.1149	31.5 - 34.0 mm	18.5 ± 0.3	1.41 ± 0.03
L & M	F, HP	80mm	0.9478	25.9 - 28.3 mm	17.5 ± 0.3	1.20 ± 0.05
L & M	F, SP	85mm	0.9961	26.5 - 28.0 mm	18.7 ± 0.3	1.32 ± 0.03
L & M	F, SP	100mm	1.1795	28.7 - 34.3 mm	18.8 ± 0.3	1.42 ± 0.03
L & M	F, M, SP	100mm	1.2152	29.2 - 31.5 mm	19.2 ± 0.3	1.30 ± 0.02
L. T. C.	F, SP	85mm	1.2312	32.8 - 33.4 mm	10.0 ± 0.2	0.72 ± 0.02
Lark	F, SP	85mm	1.1476	27.6 - 29.4 mm	17.3 ± 0.2	1.17 ± 0.01
Lark	F, SP	100mm	1.2928	30.3 - 32.6 mm	17.9 ± 0.5	1.23 ± 0.03
Life*	F, SP	100mm	1.1959	37.7 - 39.0 mm	9.5 ± 0.2	0.58 ± 0.01
Lucky Strike	NF, SP	70mm	0.9517	23 mm	28.2 ± 0.4	1.76 ± 0.04
Lucky Filters	F, SP	85mm	1.0195	26.1 - 28.1 mm	21.3 ± 0.4	1.58 ± 0.02
Lucky Filters	F, SP	100mm	1.1628	32.0 - 34.0 mm	22.2 ± 0.3	1.64 ± 0.03
Mapleton	NF, SP	70mm	1.0097	23 mm	29.0 ± 0.5	1.25 ± 0.03
Mapleton	F, SP	85mm	1.1138	26.9 - 28.7 mm	23.3 ± 0.3	1.24 ± 0.02
Marlboro	F, HP	80mm	0.9962	25.2 - 26.6 mm	18.1 ± 0.3	1.27 ± 0.05
Marlboro	F, SP	85mm	1.0604	27.5 - 28.7 mm	19.0 ± 0.3	1.34 ± 0.02
Marlboro	F, M, SP	85mm	1.0631	27.5 - 29.5 mm	17.9 ± 0.3	1.18 ± 0.03
Marlboro	F, HP	100mm	1.1668	31.9 - 34.4 mm	19.4 ± 0.4	1.46 ± 0.04
Marlboro	F, SP	100mm	1.1989	32.5 - 33.7 mm	20.3 ± 0.4	1.50 ± 0.04

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* Prior to August 1971, Life cigarette was king size, filter (85 mm)

1 F-filter; NF-non-filter; M-menthol; HP-hard pack; SP-soft pack; HWP-hard wide pack; mm-millimeter
PB-plastic Box

2 average weight reported in grams

3 range used for butt length because of variance of overwrap

4 TPM dry (tar) - milligrams total particulate matter less nicotine and water

5 milligrams total alkaloide reported as nicotine

6 limited availability based on reduced sampling from Washington, D. C. only

7 cigarettes with and without perforations smoked together

* tolerance shown is two (2) standard deviation of the means

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Source: https://www.industrydocuments.ucsf.edu/docs/gklk0001

"Tar"[4] and Nicotine[5] of One-Hundred thirty (130) Varieties of Domestic Cigarettes

Name	Type[1]		Average weight[2]	Butt length[3]	TPM dry[4] *	Nicotine[5] *
Marlboro Lights	F, SP	85 mm	1.1406	32.6 - 33.5 mm	13.4 ± 0.3	1.05 ± 0.02
Marvels	MF, SP	85 mm	1.1259	23 mm	25.5 ± 0.4	0.96 ± 0.03
Marvels	F, SP	85 mm	1.1069	27.5 - 29.0 mm	5.5 ± 0.3	0.26 ± 0.01
Marvels	F, M, SP	85 mm	1.1362	27.8 - 29.0 mm	3.9 ± 0.2	0.20 ± 0.01
Maryland	F, M, SP	100 mm	1.1793	32.6 - 33.6 mm	20.0 ± 0.2	1.39 ± 0.02
Montclair[7]	F, M, SP	85 mm	1.0117	26.4 - 27.6 mm	19.0 ± 0.5	1.41 ± 0.03
Multifilter	F, PB	85 mm	1.2111	31.2 - 35.2 mm	14.4 ± 0.4	1.08 ± 0.02
Multifilter	F, M, PB	85 mm	1.1988	32.4 - 33.9 mm	11.8 ± 0.3	0.90 ± 0.03
New Leaf	F, M, SP	85 mm	1.0576	27.4 - 28.8 mm	18.9 ± 0.3	1.31 ± 0.03
Newport	F, M, HP	80 mm	0.9786	23.0 - 26.1 mm	18.4 ± 0.5	1.08 ± 0.02
Newport	F, M, SP	85 mm	1.0393	26.4 - 28.0 mm	18.9 ± 0.4	1.10 ± 0.02
Newport	F, M, SP	100 mm	1.2415	32.9 - 33.8 mm	21.3 ± 0.3	1.26 ± 0.03
Oasis	F, M, SP	85 mm	0.9909	26.6 - 27.7 mm	18.3 ± 0.4	1.14 ± 0.01
Old Gold Straights	NF, SP	70 mm	0.9206	23 mm	21.4 ± 0.4	1.23 ± 0.03
Old Gold Straights	NF, SP	85 mm	1.1259	23 mm	26.4 ± 0.5	1.56 ± 0.04
Old Gold Filters	F, SP	85 mm	1.0589	26.2 - 28.5 mm	20.4 ± 0.3	1.29 ± 0.02
Old Gold Filters	F, SP	100 mm	1.2425	32.7 - 34.5 mm	24.6 ± 0.4	1.56 ± 0.03
Pall Mall	NF, SP	85 mm	1.1220	23 mm	28.5 ± 0.4	1.84 ± 0.03
Pall Mall	F, HP	100 mm	1.1662	32.2 - 34.0 mm	18.1 ± 0.3	1.34 ± 0.03
Pall Mall	F, M, HP	100 mm	1.1056	32.7 - 33.9 mm	17.7 ± 0.4	1.36 ± 0.03
Pall Mall	F, SP	100 mm	1.1097	32.5 - 34.0 mm	18.3 ± 0.3	1.33 ± 0.04
Pall Mall	F, M, SP	100 mm	1.1573	32.6 - 33.9 mm	17.8 ± 0.2	1.34 ± 0.03
Pall Mall	F, HP	80 mm	0.9632	26.5 - 28.0 mm	18.8 ± 0.3	1.31 ± 0.02
Pall Mall	F, SP	85 mm	1.0433	27.0 - 28.5 mm	20.7 ± 0.3	1.38 ± 0.02
Parliament	F, HP	80 mm	1.0204	30.2 - 31.9 mm	15.8 ± 0.2	1.07 ± 0.02
Parliament	F, SP	85 mm	1.0906	32.4 - 34.6 mm	15.7 ± 0.3	1.07 ± 0.02
Parliament	F, SP	100 mm	1.3720	38.6 - 40.6 mm	19.3 ± 0.4	1.41 ± 0.03
Parliament Charcoal Filter	F, HP	80 mm	1.1179	30.0 - 32.3 mm	16.6 ± 0.4	1.11 ± 0.03
Parliament Charcoal Filter	F, SP	85 mm	1.1563	32.2 - 33.8 mm	16.4 ± 0.3	1.09 ± 0.03
Peter Stuyvesant	F, SP	85 mm	1.0710	26.5 - 27.6 mm	20.0 ± 0.5	1.49 ± 0.05
Peter Stuyvesant	F, SP	100 mm	1.2238	31.4 - 32.7 mm	19.9 ± 0.5	1.51 ± 0.04
Philip Morris	NF, SP	70 mm	0.9396	23 mm	24.2 ± 0.3	1.56 ± 0.03
Philip Morris Commander	NF, SP	85 mm	1.1518	23 mm	30.4 ± 0.4	1.97 ± 0.04
Piedmont	NF, SP	70 mm	0.8835	23 mm	19.9 ± 0.2	1.55 ± 0.04
Piedmont	NF, SP	70 mm	0.8405	23 mm	23.7 ± 0.5	1.43 ± 0.03
Players	NF, HWP	70 mm	1.1189	23 mm	34.5 ± 0.4	2.39 ± 0.04
Raleigh	NF, SP	85 mm	1.0833	23 mm	26.5 ± 0.7	1.77 ± 0.05
Raleigh	F, SP	85 mm	1.0258	26.9 - 29.5 mm	17.1 ± 0.4	1.26 ± 0.02
Raleigh	F, SP	100 mm	1.1676	32.0 - 34.3 mm	18.7 ± 0.4	1.36 ± 0.03
Salem	F, M, SP	85 mm	1.0428	26.2 - 28.2 mm	18.8 ± 0.6	1.40 ± 0.05
Salem	F, M, SP	100 mm	1.2397	31.8 - 33.6 mm	19.9 ± 0.3	1.46 ± 0.03
Sano	NF, SP	70 mm	0.9806	23 mm	15.3 ± 0.4	0.50 ± 0.02
Sano	F, SP	70 mm	0.9857	25.2 - 28.3 mm	3.1 ± 0.2	0.19 ± 0.01
Silva Thins	F, SP	100 mm	1.0865	33.0 - 34.0 mm	15.8 ± 0.4	1.12 ± 0.03
Silva Thins	F, M, SP	100 mm	1.0735	32.7 - 34.7 mm	15.6 ± 0.3	1.11 ± 0.03
Spring	F, M, SP	100 mm	1.2350	32.1 - 33.9 mm	20.2 ± 0.3	1.12 ± 0.02
Stratford	NF, SP	85 mm	1.1714	23 mm	30.7 ± 0.5	1.21 ± 0.03
Tareyton	F, SP	85 mm	1.1059	26.3 - 27.8 mm	18.8 ± 0.4	1.28 ± 0.03
Tareyton	F, SP	100 mm	1.2656	32.2 - 34.3 mm	19.3 ± 0.3	1.34 ± 0.04
Tempo	F, SP	85 mm	1.0839	32.9 - 36.4 mm	11.5 ± 0.3	0.90 ± 0.02
True	F, SP	85 mm	1.0738	32.9 - 34.0 mm	11.8 ± 0.2	0.69 ± 0.02
True	F, M, SP	85 mm	1.0747	32.1 - 33.6 mm	11.6 ± 0.4	0.70 ± 0.02
Vantage	F, SP	85 mm	1.2678	31.7 - 33.9 mm	11.6 ± 0.2	0.85 ± 0.02
Vantage	F, M, SP	85 mm	1.2834	32.8 - 33.9 mm	11.2 ± 0.3	0.76 ± 0.01
Viceroy	F, SP	85 mm	1.0421	27.9 - 29.5 mm	17.3 ± 0.3	1.29 ± 0.03
Viceroy	F, SP	100 mm	1.1771	31.5 - 34.8 mm	18.6 ± 0.3	1.37 ± 0.02
Virginia Slims	F, SP	100 mm	1.0223	31.5 - 35.5 mm	17.8 ± 0.2	1.22 ± 0.02
Virginia Slims	F, M, SP	100 mm	1.0218	34.9 - 36.9 mm	18.0 ± 0.3	1.25 ± 0.02
Vogue (black)	F, HWP	85 mm	1.1251	23 mm	26.7 ± 1.3	1.00 ± 0.05
Vogue (colors)	F, HWP	85 mm	1.1152	23 mm	20.6 ± 0.7	0.83 ± 0.04
Winston	F, HP	80 mm	0.9790	23.5 - 25.0 mm	19.8 ± 0.3	1.34 ± 0.02
Winston	F, SP	85 mm	1.0248	26.0 - 28.0 mm	20.1 ± 0.3	1.38 ± 0.01
Winston	F, SP	100 mm	1.2236	32.7 - 33.5 mm	20.0 ± 0.3	1.41 ± 0.02
Winston	F, M, SP	100 mm	1.2315	32.7 - 33.5 mm	20.2 ± 0.4	1.44 ± 0.03
				$\bar{X}$	18.8	1.25

1 F-filter; NF-non-filter; M-menthol; HP-hard pack; Sp-soft pack; HWP-hard wide pack; mm-millimeter
PB-plastic Box

2 average weight reported in grams

3 range used for butt length because of variance overwrap

4 TPM dry (tar) - milligrams total particulate matter less nicotine and water

5 milligrams total alkaloids reported as nicotine

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7 cigarettes with and without perforations smoked together

* tolerance shown is two (2) standard deviation of the means

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